1645

JUN 2 4 2002

PARADEMAN IN

Atty. Docket No.:

17633/1082

**PATENT** 

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Tongwen Wang

Serial No.:

09/927,738

Filed:

August 10, 2001

Entitled:

Compositions and methods for

modulating TGF-beta signaling

Examiner:

Not Yet Assigned

Group Art Unit:

1645

Conf. No.:

7298

#### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231.

Kathleen Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

Commissioner for Patents Washington, D.C. 20231

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# TRANSMITTAL LETTER

JUN 2 6 2002

Enclosed for filing in the above-identified patent application, please find the house 1600/2900 documents:

- 1. Information Disclosure Statement;
- 2. Form PTO-1449
- 3. Copies of Cited References; and
- 4. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference No. 17633/1082. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: 4/19/12

Name: Kathleen Williams Registration No.: 34,380

Customer No.: 29933 Palmer & Dodge LLP 111 Huntington Avenue Boston, MA 02199-7613

Tel: 617-239-0100



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**TECH CENTER 1600/2900** 

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Kathleen Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

Commissioner for Patents Washington, D.C. 20231

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§§ 1.56, 1.97 AND 1.98

Dear Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicant submits this Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office. A listing of the cited documents is also enclosed, as well as, for the Examiner's convenience, copies of the documents in the list. Pursuant to CFR § 1.97(b)(3), because this Statement is being submitted before the first Office Action on the merits, no fee is required.

Applicant does not intend to represent that any of the documents submitted herein are material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

Respectfully submitted,

Date: 6/19/62

Name: Kathleen Williams Registration No.: 34,380

Customer No.: 29933 Palmer & Dodge LLP 111 Huntington Avenue Boston, MA 02199-7613

Tel: 617-239-0100

USPTO Form 14 Patent and Trade		S. Department of Commerce	Attorney Docket No.		TECH CENTER.1600/2900				
INFORM	ATION	DISCLOSURE STAT	EMENT JUN 2 4 2002	17633/10		<del></del>	09/927,738		
አ			3011 2 4 20012	Applicant(s):. Tong		<u> </u>	G 1645		
			TRADEMARY.	Filing Date: Augus	st 10, 2001	<del> </del>	Group: 1645	<u> </u>	
Examiner	ENI DO	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)		
Initial					+		(II appro	(ii appropriate)	
FOREIGI	N PATE	NT DOCUMENTS				<u></u>	<u> </u>		
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation		
							YES	NO	
	1	WO 98/53066	November 26, 1998	PCT	C12N	15/12	Y	<u> </u>	
OTHER I	OOCUM	ENTS (including Auth	or, Title, Date, Pertiner	nt Pages, etc.)					
	2	Abdollah, et al., "TßRI Phosphorylation of Smad2 on Ser <sup>465</sup> and Ser <sup>467</sup> Is Required for Smad2-Smad4 Complex Formation and Signaling", <i>Journal of Biological Chemistry</i> , 272, (1997): 27678-27685.							
	3	Baker, J. & Harland, R.M., "A Novel Mesoderm Inducer, Madr2, Functions in the Activin Signal Transduction Pathway", Genes and Development, 10, (1996): 1880-1889.							
	4	Chen, Y., et al., "Regulation of Transforming Growth Factor Beta- and Activin-Induced Transcription by Mammalian Mad Proteins", <i>PNAS-Proceedings of the National Academy of Sciences</i> , 93, (1996): 12992-12997.							
	5	Chen, X., et al., "Smad4 and FAST-1 in the Assembly of Activin-Responsive Factor", <i>Nature</i> , 389, (1997): 85-89.							
	6	de Caestecker, M.P., et al., "Characterization of Functional Domains within Smad4 / DPC4", Journal of Biological Chemistry, 272, (1997), 13690-13696.							
	7	Dennler, S., et al., "Direct Binding of Smad3 and Smad4 to Critical TGF-Inducible Elements in the Promoter of Human Plasminogen Activator Inhibitor-Type 1 Gene", <i>Embo Journal</i> , 17, (1998): 3091-3100.							
	8	Hata, A., et al., "Mutations Increasing Autoinhibition Inactivate Tumour Supressors Smad2 and Smad4", <i>Nature</i> , 388, (1997): 82 – 87.							
	9	Kim, J., et al., "Drosophila Mad Binds to DNA and Directly Mediates Activation of Vestigial by Decapentaplegic", <i>Nature</i> , 388, (1997): 304-308.							
	10	Kretzschmar, M., et al., "The TGF-Beta Family Mediator Smad1 is Phosphorylated Directly and Activated Functionally by the BMP Receptor Kinase", Genes and Development, 11, (1997): 984-995.							
·	11	Lagna, G., et al., "Partnerships Between DPC4 and SMAD Proteins in TGF-Beta Signalling Pathways", <i>Nature</i> , 383, (1996): 832-836.							
	12	Liu, F., et al., "A Hu 381, (1996) 620-623	man Mad Protein Actin	g as a BMP-regula	ited Transci	riptional A	ctivator", No	ature,	

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TRADENANT 13	Macias-Silva, M., et al., "MADR2 is a Substrate of the TGFbeta Receptor and Its Phosphorylation is Required for Nuclear Accumulation and Signaling", <i>Cell</i> , 87, (1996): 1215-1224.				
. 14	Schutte, M., et al., "DPC4 Gene in Various Tumor Types", Cancer Research, 56, (1996): 2527-2530.				
15	<ul> <li>Souchelnytskyi, S., et al., "Phosphorylation of Ser<sup>465</sup> and Ser <sup>467</sup> in the C Terminus of Smad2 Mediates Interaction with Smad4 and is Required for Transforming Growth Factor-Beta Signaling", Journal of Biological Chemistry, 272, (1997): 28107 – 28115.</li> <li>Yingling, J. M., et al., "Tumor Suppressor Smad4 is a Transforming Growth Factor Beta-Inducible DNA Binding Protein", Molecular and Cellular Biology, 17, (1997): 7019-7028.</li> </ul>				
16					
17	Wu, R. Y., et al., "Heteromeric and Homomeric Interactions Correlate with Signaling Activity and Functional Cooperativity of Smad3 and Smad4/DPC4", <i>Molecular and Cellular Biology</i> , 17, (1997): 2521-2528.				
18	Zawel, L., et al., "Human Smad3 and Smad4 are Sequence-Specific Transcription Activator Molecules and Cells, 1, (1998): 611-617.				
19	Nature Structural Biology, 1, (1994):				
EXAMINER		DATE CONSIDERED			

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<sup>\*\*</sup>Copies of references not provided at the time of this submission.